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**Feature-based watermarks and watermark detection strategies ...**

Detection of multiple watermarks and improved watermark calibration signals .... and placing it slightly offset from the original image. ...

[www.freepatentsonline.com/7020303.html](http://www.freepatentsonline.com/7020303.html) - 47k - Cached - Similar pages

**Watermark detection - Patent EP0579461**

Therefore, if the detection of the watermark can be established at a certain row of the numerical array, this can be translated to a true physical offset  $L$  ...

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Feature-based watermarks and watermark detection strategies - US Patent 7020303 from Patent ... and placing it slightly offset from the original image. ...

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**TEMPORAL VIDEO REGISTRATION FOR WATERMARK DETECTION**

watermark detection. Robustness to temporal cropping, scene removal, frame-rate changes ... accurately model time-shift (offset) and differences of frame ...

[ieeexplore.ieee.org/iel5/11024/34758/01660303.pdf](http://ieeexplore.ieee.org/iel5/11024/34758/01660303.pdf)?

isnumber=34758&prod=CNF&anumber=1660303&ar... - Similar pages

**Key Independent Watermark Detection Abstract 1. Introduction 2 ...**

Key Independent Watermark Detection. R.G. van Schyndel\*, A.Z. Tirkel. +, I. D.

Salbe\* .... subtracted from each row to avoid a background offset in ...

[doi.ieeecomputersociety.org/10.1109/MMCS.1999.779265](http://doi.ieeecomputersociety.org/10.1109/MMCS.1999.779265) - Similar pages

**Signal Processing : Spread spectrum audio watermarking using ...**

If a desynchronization attack (e.g. time shifting or time offset caused ... Watermark detection results after attacks described above are given in Table 1. ...

[linkinghub.elsevier.com/retrieve/pii/S0165168403002810](http://linkinghub.elsevier.com/retrieve/pii/S0165168403002810) - Similar pages

**(WO/1999/060791) METHOD AND APPARATUS FOR WATERMARK DETECTION FOR ...**

Such scaling, cropping and shifting render the detection of watermarks more .... 2, the

relative offset OBI is zero because the fractional remainder of ...

[www.wipo.int/pctdb/en/wo.jsp?wo=1999060791&IA=WO1999060791&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=1999060791&IA=WO1999060791&DISPLAY=DESC) - 87k

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**Estimation of Recording Location Using Audio Watermarking**

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Time. Ads. DJ talks. News. Watermark detection in the broadcast monitoring ... that have their origins slightly offset from each other. ...

[www.trt.ibm.com/projects/RightsManagement/datahiding/paper/Taiga\\_EI02Slide.pdf](http://trt.ibm.com/projects/RightsManagement/datahiding/paper/Taiga_EI02Slide.pdf) -

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Attenuated video segment is compensated by detection time. –. Offer freedom for the contents owners to adjust the watermark strength ...

[www.waea.org/tech/working\\_groups/dvd/1999/DVD99CFCR02-2\\_Galaxy.pdf](http://www.waea.org/tech/working_groups/dvd/1999/DVD99CFCR02-2_Galaxy.pdf) - Similar pages

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**Patents in Class 375**

A frequency offset compensation estimation system and method for a wireless .... the code phase detection time needed to achieve initial synchronization ...

[www.freepatentsonline.com/CCL-375-p59.html](http://www.freepatentsonline.com/CCL-375-p59.html) - 77k - Cached - Similar pages

**(WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS**

It is an object of the present invention to provide a compensation for time offset for a watermark decoding scheme that substantially addresses at least one ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC) - 89k

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**Estimation of Recording Location Using Audio Watermarking**

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reduces computational by not tracking robust and fragile watermark positions, its. embedding time and detection time is slightly longer compared to those of ...

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**ISSPIT 2003**

Oct 31, 2003 ... 202, REAL TIME COLOR BASED MOTION DETECTION AND TRACKING ... 292, A GUARD INTERVAL BASED FREQUENCY OFFSET COMPENSATION SCHEME

FOR MC-CDMA ...

[www.csp.curtin.edu.au/isspit2003/accepted.html](http://www.csp.curtin.edu.au/isspit2003/accepted.html) - 59k - Cached - Similar pages

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is optimized to reduce the detection time by employing a ... a review of the block. watermarking. and motion. compensation technique. The basic. structure ...

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**Power efficiency - Power Consumption in Real-Time Threaded ...**

Jul 16, 2007 ... Ensure Accurate Data Access When Using An Offset with Itanium ....

multithreading method of the watermark detection application: the ...

[softwarecommunity.intel.com/Wiki/Powerefficiency/524.htm](http://softwarecommunity.intel.com/Wiki/Powerefficiency/524.htm) - 101k - Cached - Similar pages

**EUSIPCO'2002 - Conference proceedings**

Paper 098: Audio prewhitening based on polynomial filtering for optimal watermark detection. Cvejic Nedeljko, Seppanen Tapio ...

[www.eurasip.org/Proceedings/Eusipco/2002/en/programme\\_05.html](http://www.eurasip.org/Proceedings/Eusipco/2002/en/programme_05.html) - 41k -

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**Paper Submissions1**

C Toker, Blind multi-user detection of space-time block coded signals in a CDMA ... Analysis of increased correlation in blind audio watermark detection. ...

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**CiteULike: New Additive Watermark Detectors Based On A ...**

Based on this model, we derive a class of detectors for the additive watermark detection problem, which include a generalized likelihood ratio, Bayesian, ...  
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**1 Link-time binary rewriting techniques for program compaction**

 Bjorn De Sutter, Bruno De Bus, Koen De Bosschere  
 September 2005 ACM Transactions on Programming Languages and Systems (TOPLAS), Vol 27 Issue 5

Publisher: ACM

Full text available:  pdf(1.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 235, Citation Count: 5

Small program size is an important requirement for embedded systems with limited amounts of memory. We describe how link-time compaction through binary rewriting can achieve code size reductions of up to 62%; for statically bound languages such ...

Keywords: Program representation, binary rewriting, code abstraction, compaction, interprocedural analysis, linker, whole-program optimization

**2 Performance directed energy management for main memory and disks**

 Xiaodong Li, Zhenmin Li, Yuanyuan Zhou, Sarita Adve  
 August 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 3

Publisher: ACM

Full text available:  pdf(705.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 122, Citation Count: 0

Much research has been conducted on energy management for memory and disks. Most studies control algorithms that dynamically transition devices to low power modes after they are idle for certain threshold period of time. The control algorithms ...

Keywords: Disk energy management, adaptation algorithms, control algorithms, low-power design, memory energy management, multiple-power mode device, performance guarantee

**3 Overload traffic management for sensor networks**

 Chieh-Yih Wan, Shane B. Eisenman, Andrew T. Campbell, Jon Crowcroft  
 October 2007 ACM Transactions on Sensor Networks (TOSN), Volume 3 Issue 4

Publisher: ACM

Full text available:  pdf(611.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 464, Citation Count: 0

There is a critical need for new thinking regarding overload traffic management in sensor networks. It has now become clear that experimental sensor networks (e.g., mote networks) and their applications commonly experience periods of persistent congestion ...

Keywords: Simulations, system design, testbeds

4 Protected interactive 3D graphics via remote rendering

 David Koller, Michael Turitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni, Roberto Scopigno

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Papers

Publisher: ACM

Full text available:  pdf(968,19 KB) Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 153, Citation Count: 5

Valuable 3D graphical models, such as high-resolution digital scans of cultural heritage objects, require protection to prevent piracy or misuse, while still allowing for interactive display and manipulation by a widespread audience. We have investigated ...

Keywords: 3D models, digital rights management, remote rendering, security

5 Protected interactive 3D graphics via remote rendering

 David Koller, Michael Turitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni, Roberto Scopigno

August 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 3

Publisher: ACM

Full text available:  pdf(368,19 KB) Additional Information: full citation, abstract, references, cited by, index term

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Valuable 3D graphical models, such as high-resolution digital scans of cultural heritage objects, require protection to prevent piracy or misuse, while still allowing for interactive display and manipulation by a widespread audience. We have investigated ...

Keywords: 3D models, digital rights management, remote rendering, security

6 Architectural Support for Software Transactional Memory

Bratin Saha, Ali-Reza Adl-Tabatabai, Quinn Jacobson

December 2006 MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available:  pdf(325,24 KB) Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 444, Citation Count: 6

Transactional memory provides a concurrency control mechanism that avoids many of the pitfalls of lock-based synchronization. Researchers have proposed several different implementations of transactional memory, broadly classified into software transactional ...

7 Exploiting self-similarities to defeat digital watermarking systems: a case study on still images

 Gwenaël Doerr, Jean-Luc Dugelay, Lucas Grangé

September 2004 MM & Sec '04: Proceedings of the 2004 workshop on Multimedia and security

Publisher: ACM

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, references, index terms

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Unauthorized digital copying is a major concern for multi-media content providers. Since copyright owners lose control over content distribution as soon as data is decrypted or unscrambled, digital watermarking has been introduced as a complementary ...

Keywords: block replacement attack, intra-signal collusion, self-similarities

8 Video copy detection: a comparative study

 Julien Law-To, Li Chen, Alexis Joly, Ivan Laptev, Olivier Buisson, Valerie Gouet-Brunet, Nozha Boujemaa, Fred Stentiford

July 2007 CI VR '07: Proceedings of the 6th ACM international conference on Image and video retrieval

Publisher: ACM

Full text available:  pdf(616.71 KB) Additional Information: full citation, abstract, references, index terms

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This paper presents a comparative study of methods for video copy detection. Different state-of-the-art techniques, using various kinds of descriptors and voting functions, are described: global video descriptors, based on spatial and temporal features; ...

Keywords: content-based video copy detection

9 Performance factors analysis of a wavelet-based watermarking method

Chaw-Seng Woo, Jiang Du, Binh Pham

January 2005 ACSW Frontiers '05: Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44, Volume 44

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(512.86 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 85, Citation Count: 0

The essential performance metrics of a robust watermark include robustness, imperceptibility, watermark capacity and security. In addition, computational cost is important for practicality. Wavelet-based image watermarking methods exploit the frequency ...

Keywords: discrete wavelet transform (DWT), embedding technique, human visual system (HVS), robust image watermark

10 Program obfuscation: a quantitative approach

 Bertrand Anckaert, Matias Madou, Bjorn De Sutter, Bruno De Bus, Koen De Bosschere, Bart Preneel

October 2007 QoP '07: Proceedings of the 2007 ACM workshop on Quality of protection

Publisher: ACM

Full text available:  pdf(212.87 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 107, Citation Count: 0

Despite the recent advances in the theory underlying obfuscation, there still is a need to evaluate the quality of practical obfuscating transformations more quickly and easily. This paper presents first steps toward a comprehensive evaluation suite ...

Keywords: metrics, program obfuscation, quantification

11 Informed detection of audio watermark for resolving playback speed modifications

 Sylvain Beauget, Michiel van der Veen, Aweke Lemma  
September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimedia and security  
Publisher: ACM

Full text available:  pdf(388.24 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 61, Citation Count: 0

In this paper, we present a method for informed watermark detection in audio signals. In this context, informed detection refers to the mechanism in which the original media signal is used to improve robustness and/or complexity. Here, we focused on ...

Keywords: audio, fingerprinting, informed detector, music distribution, watermarking

12 Robust digital image watermarking using DWT, DFT and quality based average

 Eduardo Fulla, José M. Martínez  
October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia  
Publisher: ACM

Full text available:  pdf(529.47 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 101, Citation Count: 1

This paper presents a digital image watermarking system that complements a wavelet based insertion module, with a resynchronization module, and a method for selecting the watermark using an estimated-quality-based average. The proposed system has been ...

Keywords: DFT, DWT, estimated quality based average, stirmark, watermark

13 A secure multidimensional point inclusion protocol

 Juan Ramón Troncoso-Pastoriza, Stefan Katzenbeisser, Mehmet Celik, Aweke Lemma  
September 2007 MM&Sec '07: Proceedings of the 9th workshop on Multimedia & security  
Publisher: ACM

Full text available:  pdf(421.76 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 63, Citation Count: 0

Signal processing in the encrypted domain combines typical signal processing operations and cryptographic primitives to ensure security in applications involving mutually distrusting participants. Several such applications reduce to a *multidimensional* ...

Keywords: computational geometry, homomorphic encryption, point inclusion, secure multipart computation, signal processing in the encrypted domain

14 Video booklet: a natural video searching and browsing interface

 Cai-Zhi Zhu, Xian-Sheng Hua, Tao Mei, Xiu-Qing Wu  
November 2005 MIR '05: Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval  
Publisher: ACM

Full text available:  pdf(1.74 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 47, Citation Count: 0

In this paper, we propose a novel system, named Video Booklet, which enables efficient and natural personal video browsing and searching. In the system, firstly representative thumbnails of a collection of video segments are selected through an elaborate ...

**Keyw ords:** active shape models, self-training, video album, video booklet, video retrieval, video summarization

15 A digital rights enabled graphics processing system

 Weidong Shi, Hsien-Hsin S. Lee, Richard M. Yoo, Alexandra Boldyreva  
September 2006 GH '06: Proceedings of the 21st ACM SIGGRAPH/Eurographics symposium on  
Graphics hardware

Publisher: ACM

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

With the emergence of 3D graphics/arts assets commerce on the Internet, to protect their intellectual property and to restrict their usage have become a new design challenge. This paper presents a novel protection model for commercial graphics data by ...

16 Public Authentication of 3D Mesh Models

Hao-tian Wu, Yiu-ming Cheung

December 2006 WI '06: Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web  
Intelligence

Publisher: IEEE Computer Society

Full text available:  [pdf\(249.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 65, Citation Count: 0

In this paper, a public-key scheme is proposed to authenticate 3D mesh models. It is well known that digital signature schemes can be used for data authentication by generating a separate signature and appending it to the file. Another way is divide ...

17 A survey course on computer audio

Stephen V. Rice

June 2005 Journal of Computing Sciences in Colleges, Volume 20 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(127.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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A new one-semester course for graduate students introduces them to the field of computer audio from a computer science perspective. Students gain an understanding of sound, speech, and music and their digital representation and processing in computer ...

18 Hiding data, forensics, and anti-forensics

 Hal Berghel

April 2007 Communications of the ACM, Volume 50 Issue 4

Publisher: ACM

Full text available:  [pdf\(413.95 KB\)](#)  [html\(25.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 1308, Citation Count: 0

Delving into the digital warrens for concealing data.

19 [Watermarking cyberspace](#) Hal Berghel

November 1997 Communications of the ACM, Volume 40 Issue 11

Publisher: ACM

Full text available:  pdf(1.70 MB)

Additional Information: full citation, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Citation Count: 3

20 [Estimation of recording location using audio watermarking](#) Yuta Nakashima, Ryuki Tachibana, Masafumi Nishimura, Noboru Babaguchi

September 2006 MM&amp;Sec '06: Proceedings of the 8th workshop on Multimedia and security

Publisher: ACM

Full text available:  pdf(209.98 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 58, Citation Count: 0

In this paper, we propose a novel application of audio watermarking, estimation of recording location. The purpose of the paper is to determine the seat location in a theater at which a bootleg recording was made by using a digital video camera. In the ...

Keywords: bootleg, digital audio watermarking, estimation, recording location

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1. An ICA and temporal segmentation composite video watermarking scheme  
 Jianda Sun; Ju Liu; Huluo Hu; Tao Luo;  
 Intelligent Multimedia, Video and Speech Processing, 2004. Proceedings of 2004 International Sy-  
 20-22 Oct. 2004 Page(s):286 - 289  
 Digital Object Identifier 10.1109/ISIMP.2004.1434056  
 AbstractPlus | Full Text: PDF(967 KB) [IEEE CNF](#)  
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2. Enhancement of blind watermark retrieval in drift-compensated MPEG video  
 Pranata, S.; Wahadanih, V.; Yong Liang Guan; Hock Chuan Chua; Hosseini, H.M.M.;  
 Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on  
 Volume 3, 25-28 May 2003 Page(s):III-810 - III-821 vol.3  
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3. Real-time video watermark embedding system using software on personal computer  
 Echizen, I.; Yamada, T.; Fujii, Y.; Tezuka, S.; Yoshiura, H.;  
 Systems, Man and Cybernetics, 2003. IEEE International Conference on  
 Volume 4, 10-12 Oct. 2005 Page(s):3369 - 3373 Vol. 4  
 Digital Object Identifier 10.1109/ICSMC.2005.1571667  
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4. Improving Perceptual Quality in Video watermarking using motion estimation  
 Noorkami, M.; Mersereau, R.M.;  
 Image Processing, 2006 IEEE International Conference on  
 8-11 Oct. 2006 Page(s):1389 - 1392  
 Digital Object Identifier 10.1109/ICIP.2006.312594  
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5. An automatic scheme for stereoscopic video object-based watermarking using qualified si-  
 Ntalianis, K.S.; Doulamis, A.D.; Doulamis, N.D.; Kollias, S.D.;  
 Image Processing, 2002. Proceedings. 2002 International Conference on

Volume 3, 24-28 June 2002 Page(s):501 - 504 vol.3

Digital Object Identifier 10.1109/ICIP.2002.1039017

AbstractPlus | Full Text: PDF(375 KB) IEEE Xplore

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6. Time-axis based video watermarking resisting to geometrical attacks

Sang Maodong; Yang Wenxue; Zhao Yao;

Signal Processing, 2004. Proceedings. ICSP '04. 2004 7th International Conference on

Volume 3, 31 Aug.-4 Sept. 2004 Page(s):2350 - 2353 vol.3

Digital Object Identifier 10.1109/ICOSP.2004.1442252

AbstractPlus | Full Text: PDF(183 KB) IEEE Xplore

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7. An investigation of an MPEG-4 embedded spatial digital watermark developed for tamper d

Winn, D.A.; Knowles, H.D.; Bell, D.R.; Canagarajah, C.N.;

Consumer Electronics, 2003. ICCE. 2003 IEEE International Conference on

17-19 June 2003 Page(s):64 - 65

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For example, for a 704x480 frame having 8x8 data blocks, the lower resolution sub-frame constitutes a 88x60 sub-frame. Thereafter, watermark detection is ...  
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tion scheme. During watermark detection, the extracted index of ex-. citation sequence of each sub-frame is recorded in the ar-. ray  $K = [K[0], \dots, K[N - 1]]$  ....  
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[\(WO/2003/083857\) DECODING OF WATERMARKED INFORMATION SIGNALS](#)

In order to maximize the accuracy of the watermark detection, .... The energy of the audio is then computed for each sub-frame by the whitening stage 240, ...  
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In this paper, we develop a novel video watermarking framework based on the ... diversity of the subframe-based watermark to improve detector performance. ...  
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Keywords: Attack; Bit-rate control; Collusion; Video frame-dependent watermark; Real-time detection; Robustness. 1. Introduction. 1.1. Literature review ...  
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In this section, we discuss the MASK watermark detector. To facilitate the discussion, .... near the center of the lobe, the sub-frame best aligned with ...

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### Spatially Localized Image-Dependent Watermarking for Statistical ...

by dividing the watermark frames into smaller subframes, and .... Thus at the detector we estimate the scaling factors from the wa.-termarked frame and ...

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In the detector, this property is utilized to estimate the envelope energy of the ... The energy of the audio is then computed for each sub-frame by the ...

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### Watermarking Combined with CELP Speech Coding for Authentication

tion scheme. During watermark detection, the extracted index of ex-. citation sequence of each sub-frame is recorded in the ar-. ray  $K = [K[0], \dots, K[N - 1]]$

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### Decoding of watermarked information signals - Patent 20050166068

A method as claimed in claim 1, wherein each sub-frame overlaps an adjacent .... In the detector, this property is utilized to estimate the envelope energy ...

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### Real-time frame-dependent video watermarking in VLC domain

then the estimated watermark is subtracted from. all the frames in order that the hidden signal .... literature, regularly tiled subframes [9] or feature ...

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on the detection of pseudo-random noise sequences belong to this. category .... For each sub-frame, the power of the watermark-signal ...

<http://www.spsc.tugraz.at/basilic/>

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### Robust and efficient content-based digital audio watermarking

each audio sub-frame. In other words, one bit is encoded. with multiple bits. .... dio and the reliability of watermark detection in the presence ...

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### (WO/2000/039955) DIGITAL AUDIO WATERMARKING USING CONTENT-ADAPTIVE ...

Each sub-frame carries one echo. For each echo, there is a set of parameters determined in

the .... 4 that is performed before watermark detection. ...  
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Furthermore, watermark detection does not need the original music as a reference. ....

subframe in the  $i$ th frame, the watermarked audio signal's ...

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Therefore, we extracted 20 coefficients of the OSCC feature per subframe, .... The average frame-based accuracy of chord detection is 80.87 percent. ...

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A generic watermark detection scheme is depicted in Figure 3. .... desirable properties, and the sub-frame locations are synchronized using visual content ...

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The time envelope of the excitation signal is formed with a sub-frame resolution .... of the watermark with the host signal in the watermark detector [Costa ...

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set of subframes with different resolutions. MRME is utilized to estimate motion at different resolutions of. video frame. ...

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frame rate modification may also affect watermark detection algorithms. .... subframes centered around a set of visually significant anchor points, ...

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how this can be achieved in the MASK detector. The generalized watermark detector arranged to resolve, possible time-offset and time-scale modifications is ...

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A robustness and audibility analysis of a temporal envelope ...

time-offset and time-scale modification between the embed- der and the detector. .... can be estimated. Fig. 5. The Mask watermark detector ...

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### Watermark time scale searching - US Patent 7266466

Consequently, real time implementation of a watermark detector utilizing such a time .... an estimate of the watermark sequence with different time offset....

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Watermark time scale searching - US Patent 7266466 from Patent Storm. Method and apparatus are described for compensating for a linear time scale change in ...

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### Synchronizing watermark detectors in geometrically distorted ...

A method of synchronizing a digital watermark detector divides a watermarked ... find the sub-pixel point with maximum correlation as the offset estimate. ...

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for resolving possible playback speed and time-offset changes in. the watermarked .... estimating the watermark. 3. INFORMED DETECTOR. 3.1 General Concept ...

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### (WO/2003/083858) TIME DOMAIN WATERMARKING OF MULTIMEDIA SIGNALS

These estimates of the watermark sequence are required to resolve any time offset that may exist between the embedder and the detector, ...

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(2) Use the watermark detector to estimate P .... time instants the incoming signal has to be sampled (tim- ing synchronization), and for bandpass ...

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into a different subset of pixels in the subframe. Therefore, there is no overlap of the  
encoded watermark sequences for different ...  
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Figure 1. Tuning of the Watermarks. Because of the 75% overlap, the first subframe of the watermark (denoted as 1) appears only once among all the ...  
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method as claimed in claim 1, wherein each sub-frame overlaps an adjacent sub-frame. ...  
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barbara. the subframe locations are synchronized using visual ...  
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**Watermark time scale searching - US Patent 7266466**

It will be appreciated that the robustness of a watermark will normally be a trade off ....  
Preferably, each sub-frame overlaps with an adjacent sub-frame. ...  
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**Method and apparatus for embedding digital watermarking into ...**

A method and apparatus for adding watermark data to an input signal is provided. ...  
embedding method 100 may be active in a pipelined, overlapping fashion. ...  
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**Decoding of watermarked information signals - Patent 20050166068**

A method as claimed in claim 1, wherein each sub-frame overlaps an adjacent ... It will be  
appreciated that the robustness of a watermark will normally be a ...  
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**Watermark time scale searching - Patent 7266466**

A watermark embedded in the time domain (e.g. in an audio signal) will be affected by ....  
Preferably, each sub-frame overlaps with an adjacent sub-frame. ...  
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**Content-Adaptive Digital Music Watermarking Based on Music ...**

into 60ms windows with 50% overlap and both the frequency and energy transients are

analyzed .... subframe in the ith frame, the watermarked audio signal s ...  
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A method of generating a watermark signal for embedding in a multimedia signal, ... has a band limited frequency behavior and a smooth temporal behavior. ...

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speckling, embedding watermarks in the frequency domain, can provide more protection under .... modifying the definition of "local band limited contrast" ...

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distortions in these areas than in smooth ones. .... band-limited, i.e. .... [22] developed a new frequency-domain wavelet-based watermarking technique ...

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**Z-transform implementation of digital watermarks - US Patent 6853726**

In a digital signal processing environment, a sampling theorem, known specifically as the Nyquist Theorem, proves that band limited signals can be sampled, ...

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the frequency-limited watermark with greater strength. This ... [17] especially to attacks in the high frequency band such as ...

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